

**ABSTRACT**

The present invention relates to a method of feeding gestating and lactating swine and a feed formulation which enhances pork productivity by increasing litter and pig weaning weights and the number of pigs per litter. Swine diets of this invention include carnitine, such as L-carnitine or L-carnitine salts. Carnitine is added to the swine diet in an amount effective to increase the number of pigs per litter and the litter and pig weaning weights.